

### **Remarks**

The Drawings stand objected to because all rectangular boxes in Fig. 2 should be labeled.

Fig. 2 has been amended.

Claims 1-8 are pending in the present application.

Claims 1-6 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Kuhn (US 5,111,146).

Claims 7 and 8 stand rejected under 35 U.S.C. § 101 as being directed towards non-statutory subject matter.

Claim 1 has been amended.

Claims 2, 7 and 8 have been canceled.

Claims 3-6 remain in the application unamended.

### Drawings

As shown in the attached sheet, Fig. 2 has been amended to include labels in all relevant boxes. In light of this amendment, Applicants respectfully request reconsideration and withdrawal of the objection to the Drawings.

### Claims

**Claim 1**, has been amended to include the limitations of claim 2. Claim 1, as amended, is directed to a method for shimming a main magnetic field in a magnetic resonance device, the method comprising the following steps: a) generating at least one spatially selective radio frequency pulse (RF) for exciting nuclear spin magnetization within a restricted region of the examination volume of the magnetic resonance device; b) acquiring a magnetic resonance signal that is sensitive to the homogeneity of the main magnetic field; c) applying electric currents to a shim coil arrangement of the magnetic resonance device such that the main magnetic field is adjusted in accordance to the properties of the magnetic resonance signal acquired in step b); characterized in that the electric currents applied to the shim coil arrangement are at least partially switched off during the generation of the spatially selective radio frequency pulse in step a) and switched on during the acquisition of the magnetic resonance signal in step b) wherein

steps a) to c) are repeated such that the homogeneity of the main magnetic field is optimized iteratively.

Applicants respectfully submit that the Office Action has not identified any teaching or suggestion in Kuhn which teaches that steps a) to c) are repeated such that the homogeneity of the main magnetic field is optimized iteratively as set forth in claim 1.

In light of the foregoing, Applicants request reconsideration and withdrawal of the rejection of claim 1.

**Claim 2** has been canceled in light of the amendment to claim 1.

**Claims 3-6** ultimately depend from claim 1. For at least the reasons set forth above in connection with the patentability of claim 1, Applicants request reconsideration and withdrawal of the rejection of claims 3-6.

**Claims 7 and 8** have been canceled. Applicants respectfully submit that such cancellation renders moot the rejections under § 101.

### Conclusion

Applicants submit that claims 1 and 3-6 distinguish patentably and non-obviously over the prior art of record and are in condition for allowance. An early indication of allowability is earnestly solicited.

If any extension of time is required relative to this Response A, Applicants hereby petition for such extension. Authorization to charge deposit account 14-1270 for the fees associated therewith or otherwise necessary in connection with the related application is hereby provided.

Respectfully submitted,



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